

# 6/12/18 MEGABYTE

## Winchester Disk Systems for the APPLE II and IIe COMPUTERS



### **Multiply The Power of Your Apple II**

With the latest Winchester disk system technology from Corvus Systems, you can give your Apple II or IIe computer the power and speed it needs for today's demanding computer applications. With such features as thin-film plated media and superior head-positioning systems, the Model 6, Model 11 and Model 20 all offer the advantages of our compact, quiet 5¼ inch design. With all these systems, you can include the field-proven Corvus MIRROR® video tape backup system for simple, cost-effective Winchester backup.

### **Built-in Expandability**

Corvus designs all its products with your future needs in mind. You can start with a single disk system, and as your needs grow,

let additional computers share the disk and peripherals by means of the Corvus OMNINET™ local area network. Omnet allows more than 60 Apple II or other brands of computers to share the disk system as well as printers and other peripherals. If on the other hand, you need more data storage capacity, you can add on more disk systems. No matter where your data storage and distribution needs may lead, you'll be able to get there with Corvus. Your Corvus dealer can show you how.

### **Reliable Winchester Technology**

The Corvus line of 5¼ inch Winchester disk systems sets new standards for reliability. Thin-film plated media on the Models 6, 11 and 20 allow greater bit densities without sacrificing data integrity. The sealed environment

keeps dust, smoke, and other particles from reaching the disk surface, and an automatic spindle brake protects the drive during shipping and handling. The Corvus intelligent disk controller insures rapid, reliable data transfer with such features as read-after-write verify, automatic error retries, transparent formatting with CRC (Cyclic Redundancy Check) Error Detection, and high-speed data transfer using DMA (Direct Memory Access). Corvus disk systems require no preventive maintenance.

### **Corvus Software**

Corvus provides all the software you'll need to support Apple DOS 3.3, Apple Pascal, and Apple CP/M. You can put data from any or all of these operating systems on a single disk system by dividing

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the disk space. The DOS 3.3 interface treats the disk system as multiple images of a standard diskette, and the DOS commands normally used to check volumes can be used with Corvus software to specify which volume to access. More than 120 separate volumes (up to a limit of 18 megabytes) can be on line at one time, and any of them can be write-protected at will.

The Apple Pascal interface allows you to create volumes of varying size on the system, and you can mount up to six of them at one time. The convenience of having several volumes on line of up to 20,000 blocks each cannot be overestimated. Best of all, this large increase in storage capacity is completely transparent to the operating system. If you wish, you can even configure a system with

volumes of up to 10 megabytes in size, up to a limit of 50 megabytes total. Corvus also provides several utilities for disk diagnostics, controller code update, and operation of the Corvus MIRROR.

### Other Corvus Compatible Computers

When you pick a Corvus Winchester disk system for your Apple II, you're in good company. Corvus makes network-ready Winchester disk systems for most popular microcomputers, and we've been at it longer than anyone else. In addition to the Apple II, and IIe, the list of Corvus compatibles includes the IBM Personal Computer, Apple III, TRS-80 Models II, III, and 12, Xerox 820 and 820-II, DEC Rainbow 100, Zenith Z100, NEC PC-8000, Atari 800, Osborne

1, and such S-100 Bus computers as Vector Graphic and North Star. And of course, all Corvus disk systems connect to the revolutionary new Corvus Concept™ personal workstation. Ask your Corvus dealer for details.

### Service

All Corvus disk systems come with a six (6) month parts and labor warranty. Warranty extensions of up to 24 additional months are available at a reasonable extra cost. If your Corvus disk system should ever require service, you can take it to one of our Authorized Service Centers throughout the world. In addition, on-site service is available in some areas. Check with your Corvus dealer for availability in your area.

## SPECIFICATIONS

MODEL NUMBER	MODEL 6	MODEL 11	MODEL 20	PHYSICAL DIMENSIONS	MODEL 6, 11, and 20
<b>Capacity</b> (megabytes)				<b>Height</b> (inches/centimetres)	5.75/14.6
Unformatted	7.0	14.0	21.0	<b>Width</b> (inches/centimetres)	12.0/30.5
Formatted	5.9	12.1	18.4	<b>Depth</b> (inches/centimetres)	15.0/38.1
<b>Disks</b>				<b>ENVIRONMENTAL SPECIFICATIONS</b>	
Number	1	2	3	<b>Temperature</b> (°F/°C)	
Data Surfaces	2	4	6	Operating	50° to 120°/10° to 50°
Tracks per Surface	306	306	306	Non-Operating	-40° to 140°/-40° to 60°
Diameter (inches/centimetres)	5.25/13.3	5.25/13.3	5.25/13.3	Variation	18°/10° per hour
<b>PERFORMANCE</b>				<b>Humidity</b> (non-condensing)	
<b>Access Time</b> (milliseconds)				Operating	10% to 80%
Minimum			29	Non-Operating	10% to 90%
Maximum			135	<b>Altitude, Operating</b>	
Average			68	(feet/metres)	-1,000 to 10,000/ -305 to 3,050
<b>Average Latency Time</b> (milliseconds)			8.33	<b>POWER REQUIREMENTS</b>	
<b>Disk Rotational Speed</b> (RPM)			3,600	<b>Voltage</b>	100, 120, 220, or 240 volts (selectable)
<b>Peak Transfer Rate</b> (kilobytes/second)			687.5		50/60 Hz, single phase AC
				<b>Typical Consumption</b>	150 volt amperes

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